

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: <u>09/486,625</u>
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 <input type="checkbox"/> Wrapped Nucleics	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3, as this will prevent "wrapping".	
2 <input type="checkbox"/> Wrapped Aminos	The amino acid-number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3, as this will prevent "wrapping".	
3 <input type="checkbox"/> Incorrect Line Length	The rules require that a line not exceed 72 characters in length. This includes spaces.	
4 <input type="checkbox"/> Misaligned Amino Acid Numbering	The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and use spacing between the numbers.	
5 <input type="checkbox"/> Non-ASCII	This file was not saved in ASCII (DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text so that it can be processed.	
6 <input type="checkbox"/> Variable Length	Sequence(s) <input type="checkbox"/> contain n's or Xaa's which represented more than one residue. As per the rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the (ix) feature section that some may be missing.	
7 <input type="checkbox"/> PatentIn ver. 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) <input type="checkbox"/> . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
8 <input type="checkbox"/> Skipped Sequences (OLD RULES)	Sequence(s) <input type="checkbox"/> missing. If intentional, please use the following format for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS") (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: This sequence is intentionally skipped Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).	
9 <input type="checkbox"/> Skipped Sequences (NEW RULES)	Sequence(s) <input type="checkbox"/> missing. If intentional, please use the following format for each skipped sequence. <210> sequence id number <400> sequence id number 000	
10 <input type="checkbox"/> Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Use of <220> to <223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
11 <input type="checkbox"/> Use of <213>Organism (NEW RULES)	Sequence(s) <input type="checkbox"/> are missing this mandatory field or its response.	
12 <input type="checkbox"/> Use of <220>Feature (NEW RULES)	Sequence(s) <input type="checkbox"/> are missing the <220>Feature and associated headings. Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown" Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)	
13 <input type="checkbox"/> PatentIn ver. 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other means to copy file to floppy disk.	

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/486,625

DATE: 11/16/2000
TIME: 16:24:01

Input Set : A:\PTO.txt
Output Set: N:\CRF3\11162000\I486625.raw

Does Not Comply
Corrected Diskette Needed

3 <110> APPLICANT: Ayyavoo, Velpandi
4 Nagashunmugam, Thandavarayan
5 Weiner, David B.
6 University of Pennsylvania
9 <120> TITLE OF INVENTION: ATTENUATED VIF DNA IMMUNIZATION CASSETTES FOR GENETIC
10 VACCINES
12 <130> FILE REFERENCE: UPAP-0263
OK 14 <140> CURRENT APPLICATION NUMBER: US/09/486,625
15 <141> CURRENT FILING DATE: 2000-09-13
17 <160> NUMBER OF SEQ ID NOS: 46
19 <170> SOFTWARE: PatentIn Ver. 2.0

*Errors
throughout*

ERRORED SEQUENCES

21 <210> SEQ ID NO: 1
22 <211> LENGTH: 190
23 <212> TYPE: PRT
24 <213> ORGANISM: Artificial Sequence
26 <220> FEATURE:
27 <223> OTHER INFORMATION: Description of Artificial Sequence: Novel Sequence
29 <100> SEQUENCE: 1
30 Met Glu Asn Arg Trp Glp Val Met Ile Val Trp Gln Val Asp Arg Met
E--> 31 1 x 5 5 10 15 20 25
E--> 32 15
34 Arg Ile Arg Thr Trp Asn Ser Leu Val Lys His His Met Tyr Val Ser
E--> 35 20 25
E--> 36 30
38 Lys Lys Ala Arg Trp Phe Tyr Arg His His Tyr Glu Ser Pro His Pro
E--> 39 35 40
41 Lys Val Ser Ser Glu Val His Ile Pro Leu Gly Asp Ala Arg Leu Glu
E--> 42 50 55 60
44 Thr Thr Thr Tyr Trp Gly Leu His Gly Glu Arg Asp Trp His Leu Gly
E--> 45 65 70 75
E--> 46 80
49 Gln Gly Val Ser Ile Glu Trp Arg Lys Arg Arg Tyr Ser Thr Gln Val
E--> 50 85 90
E--> 51 95
53 Asp Pro Asp Leu Ala Asp Gln Leu Ile His Leu Tyr Tyr Phe Asp Cys
E--> 54 100 105
E--> 55 110
57 Phe Ser Glu Ser Ala Ile Arg Lys Ala Ile Leu Gly Tyr Arg Val Ser
E--> 58 115 120 125
60 Pro Arg Cys Glu Tyr Gln Ala Gly His Asn Lys Val Gly Ser Leu Gln
E--> 61 130 135 140
63 Tyr Leu Ala Leu Ala Leu Ile Thr Pro Lys Lys Ile Lys Pro Pro
E--> 64 145 150 155

*misaligned amino
acid numbers. See
item 4
on Error
summary sheet.
(global error)*

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Input Set : A:\PTO.txt
Output Set: N:\CRF3\11162000\I486625.raw

E--> 65 160
67 Leu Pro Ser Val Arg Lys Leu Thr Glu Asp Arg Trp Asn Lys Pro Gln
E--> 68 165 170
E--> 69 175
71 Lys Thr Lys Gly His Arg Gly Ser His Thr Met Asn Gly His
E--> 72 180 185
E--> 73 190
98 <210> SEQ ID NO: 4
99 <211> LENGTH: 190
100 <212> TYPE: PRT
101 <213> ORGANISM: Artificial Sequence
103 <220> FEATURE:
104 <223> OTHER INFORMATION: Description of Artificial Sequence: Novel Sequence
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107 Met Glu Asn Arg Trp Gln Val Ile Ile Val Trp Gln Val Asp Arg Met
E--> 108 1 5 10
E--> 109 15
111 Arg Ile Arg Thr Trp Asn Ser Leu Val Lys Tyr His Met Tyr Ser Lys
E--> 112 20 25
E--> 113 30
115 Lys Ala Arg Glu Trp Phe Tyr His His Tyr Gln Ser Pro His Pro Lys
E--> 116 35 40
118 Val Ser Ser Glu Val His Ile Pro Leu Glu Asp Ala Arg Leu Glu Ile
E--> 119 50 55 60
121 Thr Ser Phe Trp Gly Leu His Thr Gly Glu Arg Asp Trp His Leu Gly
E--> 122 65 70 75
E--> 123 80
125 Gln Gly Val Ser Ile Glu Trp Arg Lys Arg Arg Tyr Ser Thr His Val
E--> 126 85 90
E--> 127 95
129 Asp Pro Asp Leu Ala Asp Gln Leu Ile His Leu Tyr Tyr Phe Asp Cys
E--> 130 100 105
E--> 131 110
133 Phe Ser Glu Ser Ala Ile Arg Lys Ala Ile Leu Gly His Arg Val Ser
E--> 134 115 120 125
136 Pro Arg Cys Glu Tyr Arg Ala Gly His Ser Lys Val Gly Ser Leu Gln
E--> 137 130 135 140
139 Tyr Leu Ala Ile Ala Ala Leu Ile Thr Pro Lys Lys Ile Lys Pro Pro
E--> 140 145 150 155
E--> 141 160
143 Leu Ala Ser Val Arg Lys Leu Thr Glu Asp Arg Trp Asn Lys Pro Gln
E--> 144 165 170
E--> 145 175
147 Lys Thr Lys Gly His Arg Gly Ser His Thr Met Asn Gly His
E--> 148 180 185
E--> 149 190
152 <210> SEQ ID NO: 5
153 <211> LENGTH: 192
154 <212> TYPE: PRT

45 *Same error*

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/486,625

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TIME: 16:24:01

Input Set : A:\PTO.txt
Output Set: N:\CRF3\11162000\I486625.raw

155 <213> ORGANISM: Artificial Sequence
157 <220> FEATURE:
158 <223> OTHER INFORMATION: Description of Artificial Sequence: Novel Sequence
160 <400> SEQUENCE: 5
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E--> 162 1 5 10
E--> 163 15
165 Arg Ile Arg Thr Trp Asn Ser Leu Val Lys Tyr His Met Tyr Arg Ser
E--> 166 20 25
E--> 167 30
169 Lys Lys Ala Arg Glu Trp Phe Tyr Arg His His Tyr Gln Ser Pro His
E--> 170 35 40 45
172 Pro Arg Val Ser Ser Glu Val His Ile Pro Leu Glu Asp Ala Arg Leu
E--> 173 50 55 60
175 Glu Ile Thr Thr Tyr Trp Gly Leu His Thr Gly Glu Arg Asp Trp His
E--> 176 65 70 75
E--> 177 80
179 Leu Gly Gln Gly Val Ser Ile Glu Trp Arg Lys Arg Arg Tyr Ser Thr
E--> 180 85 90
E--> 181 95
183 Gln Val Asp Pro Asp Leu Ala Asp Gln Leu Ile His Leu Tyr Tyr Phe
E--> 184 100 105
E--> 185 110
187 Asp Cys Phe Ser Glu Ser Ala Ile Arg Lys Ala Ile Leu Gly His Arg
E--> 188 115 120 125
190 Val Ser Pro Arg Cys Glu Tyr Arg Ala Gly His Ser Lys Val Gly Ser
E--> 191 130 135 140
193 Leu Gln Tyr Leu Ala Ile Ala Leu Ile Thr Pro Lys Lys Ile Lys
E--> 194 145 150 155
E--> 195 160
197 Pro Pro Leu Pro Ser Val Arg Lys Leu Thr Glu Asp Arg Trp Asn Lys
E--> 198 165 170
E--> 199 175
201 Pro Gln Lys Thr Lys Gly His Arg Gly Ser His Thr Met Asn Gly His
E--> 202 180 185
E--> 203 190
205 <210> SEQ ID NO: 6
206 <211> LENGTH: 192
207 <212> TYPE: PRT
208 <213> ORGANISM: Artificial Sequence
210 <220> FEATURE:
211 <223> OTHER INFORMATION: Description of Artificial Sequence: Novel Sequence
213 <400> SEQUENCE: 6
214 Met Glu Asn Arg Trp Gln Val Met Ile Val Trp Gln Val Asp Arg Met
E--> 215 1 5 10
E--> 216 15
218 Arg Ile Arg Thr Trp Asn Ser Leu Val Lys Tyr His Met Tyr Arg Ser
E--> 219 20 25
E--> 220 30

name

name

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/486,625

DATE: 10/16/2000
TIME: 16:24:01

Input Set : A:\PTO.txt
Output Set: N:\CRF3\11162000\I486625.raw

222 Lys Lys Ala Arg Glu Trp Phe Tyr Arg His His Tyr Gln Ser Pro His
E--> 223 35 40 45
225 Pro Lys Val Ser Ser Glu Val His Ile Pro Leu Glu Asp Ala Arg Leu
E--> 226 50 55 60
228 Glu Thr Thr Tyr Trp Gly Leu His Thr Gly Glu Arg Asp Trp His
E--> 229 65 70 75
E--> 230 80
232 Leu Gly Gln Gly Val Ser Ile Glu Trp Arg Lys Arg Arg Tyr Ser Thr
E--> 233 85 90
E--> 234 95
236 Gln Val Asp Pro Asp Leu Ala Asp Gln Leu Ile His Leu Tyr Tyr Phe
E--> 237 100 105
E--> 238 110
240 Asp Cys Phe Ser Glu Ser Ala Ile Arg Lys Ala Ile Leu Gly His Arg
E--> 241 115 120 125
243 Val Ser Pro Arg Cys Glu Tyr Arg Ala Gly His Ser Lys Val Gly Ser
E--> 244 130 135 140
246 Leu Gln Tyr Leu Ala Ile Ala Ala Leu Ile Thr Pro Lys Lys Ile Lys
E--> 247 145 150 155
E--> 248 160
250 Pro Pro Leu Pro Ser Val Arg Lys Leu Thr Glu Asp Arg Trp Asn Lys
E--> 251 165 170
E--> 252 175
254 Pro Gln Lys Thr Lys Gly His Arg Gly Ser His Thr Met Asn Gly His
E--> 255 180 185
E--> 256 190
258 <210> SEQ ID NO: 7
259 <211> LENGTH: 192
260 <212> TYPE: PRT
261 <213> ORGANISM: Artificial Sequence
263 <220> FEATURE:
264 <223> OTHER INFORMATION: Description of Artificial Sequence: Novel Sequence
266 <400> SEQUENCE: 7
267 Met Glu Asn Arg Trp Gln Val Met Ile Val Trp Gln Val Asp Arg Met
E--> 268 1 5 10
E--> 269 15
271 Arg Ile Arg Thr Trp Asn Ser Leu Val Thr Tyr His Met Tyr Arg Ser
E--> 272 20 25
E--> 273 30
275 Gln Lys Ala Arg Glu Trp Phe Asn Arg His His Tyr His Ser Pro His
E--> 276 35 40 45
278 Pro Lys Val Ser Ser Glu Val His Ile Pro Leu Glu Asp Ala Arg Leu
E--> 279 50 55 50
281 Ala Ile Pro Thr Phe Trp Gly Leu His Thr Gly Glu Arg Asp Trp His
E--> 282 65 70 75
E--> 283 80
285 Leu Gly Gln Gly Val Ser Ile Glu Trp Arg Lys Arg Arg Tyr Ser Thr
E--> 286 85 90
E--> 287 95

same

same

RAW SEQUENCE LISTING
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Input Set : A:\PTO.txt
Output Set: N:\CRF3\11162000\I486625.raw

289 Gln Val Asp Pro Asp Leu Ala Asp Gln Leu Ile His Leu Tyr Tyr Phe
E--> 290 100 105
E--> 291 110
293 Asp Cys Phe Ser Glu Ser Ala Ile Arg Lys Ala Ile Le Gly His Arg
E--> 294 115 120 125
296 Val Ser Pro Arg Cys Glu Tyr Arg Ala Gly His Ser Lys Val Gly Ser
E--> 297 130 135 140
299 Leu Gln Tyr Leu Ala Ile Ala Ala Leu Ile Thr Pro Lys Lys Ile Lys
E--> 300 145 150 155
E--> 301 160
303 Pro Pro Leu Pro Ser Val Arg Lys Leu Thr Glu Asp Arg Trp Asn Lys
E--> 304 165 170
E--> 305 175
307 Pro Gln Lys Thr Lys Gly His Arg Gly Ser His Thr Met Asn Gly His
E--> 308 180 185
E--> 309 190
311 <210> SEQ ID NO: 8
312 <211> LENGTH: 192
313 <212> TYPE: PRT
314 <213> ORGANISM: Artificial Sequence
316 <220> FEATURE:
317 <223> OTHER INFORMATION: Description of Artificial Sequence: Novel Sequence
319 <400> SEQUENCE: 8
320 Met Glu Asn Arg Trp Gln Val Met Ile Val Trp Gln Val Asp Arg Met
E--> 321 1 5 10
E--> 322 15
324 Arg Ile Arg Thr Trp Asn Ser Leu Val Lys Tyr His Met Tyr Arg Ser
E--> 325 20 25
E--> 326 30
328 Lys Lys Ala Arg Glu Trp Phe Tyr Arg His His Tyr Gln Ser Pro His
E--> 329 35 40 45
331 Pro Lys Val Ser Ser Glu Val His Ile Pro Leu Glu Asp Ala Arg Leu
E--> 332 50 55 60
334 Glu Ile Thr Thr Tyr Trp Gly Leu His Thr Gly Glu Arg Asp Trp His
E--> 335 65 70 75
E--> 336 80
338 Leu Gly Gln Gly Val Ser Ile Glu Trp Arg Lys Arg Arg Tyr Ser Thr
E--> 339 85 90
E--> 340 95
342 His Val Asp Pro Asp Leu Ala Asp His Leu Ile His Leu Cys Tyr Phe
E--> 343 100 105
E--> 344 110
346 Asp Cys Leu Ser Glu Ser Ala Ile Arg Lys Ala Ile Leu Gly His Arg
E--> 347 115 120 125
349 Val Ser Pro Arg Cys Glu Tyr Arg Ala Gly His Ser Lys Val Gly Ser
E--> 350 130 135 140
352 Leu Gln Tyr Leu Ala Ile Ala Ala Leu Ile Thr Pro Lys Lys Ile Lys
E--> 353 145 150 155
E--> 354 160

Dane

Dane

RAW SEQUENCE LISTING
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DATE: 11/16/2000
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Input Set : A:\PTO.txt
Output Set: N:\CRF3\11162000\I486625.raw

356 Pro Pro Leu Pro Ser Val Arg Lys Leu Thr Glu Asp Arg Trp Asn Lys
E--> 357 165 170
E--> 358 175
360 Pro Gln Lys Thr Lys Gly His Arg Gly Ser His Thr Met Asn Gly His
E--> 361 180 185
E--> 362 190
364 <210> SEQ ID NO: 9
365 <211> LENGTH: 192
366 <212> TYPE: PRT
367 <213> ORGANISM: Artificial Sequence
369 <220> FEATURE:
370 <223> OTHER INFORMATION: Description of Artificial Sequence: Novel Sequence
372 <400> SEQUENCE: 9
373 Met Glu Asn Arg Trp Gln Val Met Ile Val Trp Gln Val Asp Arg Met
E--> 374 1 5 10
E--> 375 15
377 Arg Ile Arg Thr Trp Asn Ser Leu Val Lys Tyr His Met Tyr Arg Ser
E--> 378 20 25
E--> 379 30
381 Lys Lys Ala Arg Glu Trp Phe Tyr Arg His His Tyr Gln Ser Pro His
E--> 382 35 40
384 Pro Lys Val Ser Ser Glu Val His Ile Pro Leu Glu Asp Ala Arg Leu
E--> 385 50 55 60
387 Val Ile Thr Thr Tyr Trp Gly Leu His Thr Gly Glu Arg Asp Trp His
E--> 388 65 70 75
E--> 389 80
391 Leu Gly Gln Gly Val Ser Ile Glu Trp Arg Lys Arg Arg Tyr Ser Thr
E--> 392 85 90
E--> 393 95
395 His Val Asp Pro Asp Leu Ala Asp Gln Leu Ile His Leu Tyr Tyr Phe
E--> 396 100 105
E--> 397 110
399 Asp Cys Phe Ser Glu Ser Ala Ile Arg Lys Ala Ile Leu Gly His Arg
E--> 400 115 120 125
402 Val Ser Pro Arg Cys Glu Tyr Arg Ala Gly His Ser Lys Val Gly Ser
E--> 403 130 135 140
405 Leu Gln Tyr Leu Ala Ile Ala Ala Leu Ile Thr Pro Lys Lys Ile Lys
E--> 406 145 150 155
E--> 407 160
409 Pro Pro Leu Ala Ser Val Arg Lys Leu Thr Glu Asp Arg Trp Asn Lys
E--> 410 165 170
E--> 411 175
413 Pro Gln Lys Thr Lys Gly His Arg Gly Ser His Thr Met Asn Gly His
E--> 414 180 185
E--> 415 190
417 <210> SEQ ID NO: 10
418 <211> LENGTH: 192
419 <212> TYPE: PRT
420 <213> ORGANISM: Artificial Sequence

Same

RAW SEQUENCE LISTING
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TIME: 16:24:01

Input Set : A:\PTO.txt
Output Set: N:\CRF3\11162000\I486625.raw

422 <220> FEATURE:
423 <223> OTHER INFORMATION: Description of Artificial Sequence: Novel Sequence
425 <400> SEQUENCE: 10
426 Met Glu Asn Arg Trp Gln Val Met Ile Val Trp Gln Val Asp Arg Met
E--> 427 1 5 10
E--> 428 15
430 Arg Ile Arg Thr Trp Asn Ser Leu Val Lys Tyr His Met Tyr Arg Ser
E--> 431 20 25
E--> 432 30
434 Lys Lys Ala Arg Glu Trp Phe Tyr Arg His His Tyr Gln Ser Pro His
E--> 435 35 40 45
437 Pro Lys Val Ser Ser Glu Val His Ile Pro Leu Glu Asp Ala Arg Leu
E--> 438 50 55 60
440 Val Ile Thr Thr Tyr Trp Gly Leu His Thr Gly Glu Arg Asp Trp His
E--> 441 65 70 75
E--> 442 80
444 Leu Glu Gln Gly Val Ser Ile Glu Trp Arg Lys Arg Arg Tyr Ser Thr
E--> 445 85 90
E--> 446 95
448 Gln Val Asp Pro Asp Leu Ala Asp His Leu Ile His Leu Tyr Tyr Phe
E--> 449 100 105
E--> 450 110
452 Asp Cys Phe Ser Glu Ser Ala Ile Arg Lys Ala Ile Leu Gly His Arg
E--> 453 115 120 125
455 Val Ser Pro Arg Cys Glu Tyr Arg Ala Gly His Ser Lys Val Gly Ser
E--> 456 130 135 140
458 Leu Gln Tyr Leu Ala Ile Ala Ala Leu Ile Thr Pro Lys Lys Ile Lys
E--> 459 145 150 155
E--> 460 160
462 Pro Pro Leu Ala Ser Val Arg Lys Leu Thr Glu Asp Arg Trp Asn Lys
E--> 463 165 170
E--> 464 175
466 Pro Gln Lys Thr Lys Gly His Arg Gly Ser His Thr Met Asn Gly His
E--> 467 180 185
E--> 468 190
470 <210> SEQ ID NO: 11
471 <211> LENGTH: 192
472 <212> TYPE: PRT
473 <213> ORGANISM: Artificial Sequence
475 <220> FEATURE:
476 <223> OTHER INFORMATION: Description of Artificial Sequence: Novel Sequence
478 <400> SEQUENCE: 11
479 Met Glu Asn Arg Trp Gln Val Met Ile Val Trp Gln Val Asp Arg Met
E--> 480 1 5 10
E--> 481 15
483 Arg Ile Arg Thr Trp Asn Ser Leu Val Lys Tyr His Met Tyr Arg Ser
E--> 484 20 25
E--> 485 30
487 Lys Lys Ala Arg Glu Trp Phe Tyr Arg His His Tyr Gln Ser Pro His

None

None

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PATENT APPLICATION: US/09/486,625

DATE: 11/16/2000
TIME: 16:24:01

Input Set : A:\PTO.txt
Output Set: N:\CRF3\11162000\1486625.raw

E--> 488 35 40 45
490 Pro Lys Val Ser Ser Glu Val His Ile Pro Leu Glu Asp Ala Arg Leu
E--> 491 50 55 60
493 Val Ile Thr Thr Phe Trp Gly Leu His Thr Gly Glu Arg Asp Trp His
E--> 494 65 70 75
E--> 495 80
497 Leu Glu Gln Gly Val Ser Ile Glu Trp Arg Lys Arg Arg Tyr Ser Thr
E--> 498 85 90
E--> 499 95
501 His Val Asp Pro Asp Leu Ala Asp Gln Leu Ile His Leu Tyr Tyr Phe
E--> 502 100 105
E--> 503 110
505 Asp Cys Phe Ser Glu Ser Ala Ile Arg Lys Ala Ile Leu Gly His Arg
E--> 506 115 120 125
508 Val Ser Pro Arg Cys Glu Tyr Arg Ala Gly His Ser Lys Val Gly Ser
E--> 509 130 135 140
511 Leu Gln Tyr Leu Ala Ile Ala Ala Leu Ile Thr Pro Lys Lys Ile Lys
E--> 512 145 150 155
E--> 513 160
515 Pro Pro Leu Pro Ser Val Arg Lys Leu Thr Glu Asp Arg Trp Asn Lys
E--> 516 165 170
E--> 517 175
519 Pro Gln Lys Thr Lys Gly His Arg Gly Ser His Thr Met Asn Gly His
E--> 520 180 185
E--> 521 190
523 <210> SEQ ID NO: 12
524 <211> LENGTH: 192
525 <212> TYPE: PRT
526 <213> ORGANISM: Artificial Sequence
528 <220> FEATURE:
529 <223> OTHER INFORMATION: Description of Artificial Sequence: Novel Sequence
531 <400> SEQUENCE: 12
532 Met Glu Asn Arg Trp Gln Val Met Ile Val Trp Gln Val Asp Arg Met
E--> 533 1 5 10
E--> 534 15
536 Arg Ile Arg Thr Trp Asn Ser Leu Val Lys Tyr His Met Tyr Arg Ser
E--> 537 20 25
E--> 538 30
540 Lys Lys Ala Arg Glu Trp Phe Asn Arg His His Tyr His Arg Pro His
E--> 541 35 40 45
543 Pro Lys Val Ser Ser Glu Val His Ile Pro Leu Glu Asp Ala Arg Leu
E--> 544 50 55 60
546 Glu Ile Thr Thr Phe Trp Gly Leu His Thr Gly Glu Arg Asp Trp His
E--> 547 65 70 75
E--> 548 80
550 Leu Gly Gln Gly Val Ser Ile Glu Trp Arg Lys Arg Arg Tyr Ser Thr
E--> 551 85 90
E--> 552 95
554 Gln Val Asp Pro Asp Leu Ala Asp Gln Leu Ile His Leu Tyr Tyr Phe

Same

Same

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Input Set : A:\PTO.txt
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E--> 555 100 105
 E--> 556 110
 558 Asp Cys Phe Ser Glu Ser Ala Ile Arg Lys Ala Ile Leu Gly His Arg
 E--> 559 115 120
 561 Val Ser Pro Arg Cys Glu Tyr Arg Ala Gly His Ser Lys Val Gly Ser
 E--> 562 130 135
 564 Leu Gln Tyr Leu Ala Ile Ala Leu Ile Thr Pro Lys Lys Ile Lys
 E--> 565 145 150 155
 E--> 566 160
 568 Pro Pro Leu Pro Ser Val Arg Lys Leu Thr Glu Asp Arg Trp Asn Lys
 E--> 569 165 170
 E--> 570 175
 572 Pro Gln Lys Thr Lys Gly His Arg Gly Ser His Thr Met Asn Gly His
 E--> 573 180 185
 E--> 574 190
 576 <210> SEQ ID NO: 13
 577 <211> LENGTH: 192
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 579 <213> ORGANISM: Artificial Sequence
 581 <220> FEATURE:
 582 <223> OTHER INFORMATION: Description of Artificial Sequence: Novel Sequence
 584 <400> SEQUENCE: 13
 585 Met Glu Asn Arg Trp Gln Val Met Ile Val Trp Gln Val Asp Arg Met
 E--> 586 1 5 10
 E--> 587 15
 589 Arg Ile Arg Thr Trp Asn Ser Leu Val Lys Tyr His Met Tyr Arg Ser
 E--> 590 20 25
 E--> 591 30
 593 Gln Lys Glu Arg Glu Trp Phe Asn Arg His His Tyr His Ser Pro His
 E--> 594 35 40
 596 Pro Glu Gln Ser Ser Thr Ala His Ile Pro Leu Val Asp Gly Arg Leu
 E--> 597 50 55
 599 Glu Lys Ile Ala Val Trp Ser Leu Asp Thr Gly Glu Gly Val Trp His
 E--> 600 65 70 75
 E--> 601 80
 603 Arg Gly His Arg Val Ser Ile Glu Trp Arg Lys Arg Arg Tyr Ser Thr
 E--> 604 85 90
 E--> 605 95
 607 Gln Val Asp Pro Asp Leu Val Asp Gln Leu Ile His Leu Tyr Tyr Phe
 E--> 608 100 105
 E--> 609 110
 611 Asp Cys Phe Ser Glu Ser Ala Ile Arg Lys Ala Ile Leu Gly His Arg
 E--> 612 115 120
 614 Val Ser Pro Arg Cys Glu Tyr Arg Ala Gly His Ser Lys Val Gly Ser
 E--> 615 130 135
 617 Leu Gln Tyr Leu Ala Ile Ala Leu Ile Thr Pro Lys Lys Ile Lys
 E--> 618 145 150 155
 E--> 619 160
 621 Pro Pro Leu Pro Ser Val Arg Lys Leu Thr Glu Asp Arg Trp Asn Lys

same

same

RAW SEQUENCE LISTING
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Input Set : A:\PTO.txt
Output Set: N:\CRF3\11162000\I486625.raw

E--> 622 165 170
E--> 623 175
625 Pro Gln Lys Thr Lys Gly His Arg Gly Ser His Thr Met Asn Gly His
E--> 626 180 185
E--> 627 190
629 <210> SEQ ID NO: 14
630 <211> LENGTH: 192
631 <212> TYPE: PRT
632 <213> ORGANISM: Artificial Sequence
634 <220> FEATURE:
635 <223> OTHER INFORMATION: Description of Artificial Sequence: Novel Sequence
637 <400> SEQUENCE: 14
638 Met Glu Asn Arg Trp Gln Val Met Ile Val Trp Gln Val Asp Arg Met
E--> 639 1 5 10
E--> 640 15
642 Arg Ile Arg Thr Trp Asn Ser Leu Val Lys His His Met Tyr Val Ser
E--> 643 20 25
E--> 644 30
646 Lys Lys Ala Lys Lys Trp Phe Tyr Arg His His Tyr Glu Ser Pro His
E--> 647 35 40 45
649 Pro Lys Val Ser Ser Thr Ala His Ile Pro Leu Gly Asp Gly Arg Leu
E--> 650 50 55 60
652 Glu Lys Thr Ala Val Trp Ser Leu Gln Ala Gly Asp Gly Val Trp His
E--> 653 65 70 75
E--> 654 80
656 Arg Gly His Pro Val Ser Ile Glu Trp Arg Lys Arg Arg Tyr Ser Thr
E--> 657 85 90
E--> 658 95
660 Glu Val Asp Pro Asp Leu Val Asp Gln Leu Ile His Leu Tyr Tyr Phe
E--> 661 100 105
E--> 662 110
664 Asp Cys Phe Ser Glu Ser Ala Ile Arg Lys Ala Ile Leu Gly Tyr Arg
E--> 665 115 120 125
667 Val Ser Pro Arg Cys Glu Tyr Gln Ala Gly His Asn Lys Val Gly Ser
E--> 668 130 135 140
670 Leu Gln Tyr Leu Ala Leu Ala Leu Ile Thr Pro Lys Lys Ile Lys
E--> 671 145 150 155
E--> 672 160
674 Pro Pro Leu Pro Ser Val Arg Lys Leu Thr Glu Asp Arg Trp Asn Lys
E--> 675 165 170
E--> 676 175
678 Pro Gln Lys Thr Lys Gly His Arg Gly Ser His Thr Met Asn Gly His
E--> 679 180 185
E--> 680 190
683 <210> SEQ ID NO: 15
684 <211> LENGTH: 191
685 <212> TYPE: PRT
686 <213> ORGANISM: Artificial Sequence
688 <220> FEATURE:

Same

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/486,625

DATE: 11/16/2000
TIME: 16:24:01

Input Set : A:\PTO.txt
Output Set: N:\CRF3\11162000\I486625.raw

689 <223> OTHER INFORMATION: Description of Artificial Sequence: Novel Sequence
691 <400> SEQUENCE: 15
692 Met Glu Asn Arg Trp Gln Val Met Ile Val Trp Gln Val Asp Arg Met
E--> 693 1 5 10
E--> 694 15
696 Arg Ile Arg Ala Trp Asn Ser Leu Val Lys His His Met Tyr Val Ser
E--> 697 20 25
E--> 698 30
700 Lys Lys Ala Arg Thr Trp Phe Ser Arg His His Tyr Gly Ser Pro His
E--> 701 35 40 45
703 Pro Lys Val Cys Ser Glu Val His Ile Pro Leu Gly Asp Ala Arg Leu
E--> 704 50 55 60
706 Val Ile Thr Thr Tyr Trp Ser Leu His Ala Gly Glu Asp Trp His Val
E--> 707 65 70 75
E--> 708 80
710 Gly Gln Arg Val Ser Ile Glu Trp Arg Lys Arg Arg Tyr Ser Thr Gln
E--> 711 85 90
E--> 712 95
714 Val Asp Pro Asp Leu Asp Gln Leu Ile His Leu Tyr Phe Asp
E--> 715 100 105
E--> 716 110
718 Cys Phe Ser Glu Ser Ala Ile Arg Lys Ala Ile Leu Gly Tyr Arg Val
E--> 719 115 120 125
721 Ser Pro Arg Cys Glu Tyr Gln Ala Gly His Asn Lys Val Gly Ser Leu
E--> 722 130 135 140
724 Gln Tyr Leu Ala Leu Ala Ile Thr Pro Lys Lys Ile Lys Pro
E--> 725 145 150 155
E--> 726 160
728 Pro Leu Pro Ser Val Arg Lys Leu Thr Glu Asp Arg Trp Asn Lys Pro
E--> 729 165 170
E--> 730 175
732 Gln Lys Thr Lys Gly His Arg Gly Ser His Thr Met Asn Gly His
E--> 733 180 185
E--> 734 190
737 <210> SEQ ID NO: 16
738 <211> LENGTH: 192
739 <212> TYPE: PRT
740 <213> ORGANISM: Artificial Sequence
742 <220> FEATURE:
743 <223> OTHER INFORMATION: Description of Artificial Sequence: Novel Sequence
745 <100> SEQUENCE: 16
746 Met Glu Asn Arg Trp Gln Val Met Ile Val Trp Gln Val Asp Arg Met
E--> 747 1 5 10
E--> 748 15
750 Arg Ile Arg Ala Trp Asn Ser Leu Val Lys His His Thr Tyr Phe Ser
E--> 751 20 25
E--> 752 30
754 Lys Lys Ala Lys Lys Trp Phe Tyr Arg His His Tyr Glu Ser Pro His
E--> 755 35 40 45

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/486,625

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TIME: 16:24:01

Input Set : A:\PTO.txt
Output Set: N:\CRF3\11162000\I486625.raw

757 Pro Asn Val Ser Ser Glu Val His Ile Pro Leu Gly Asp Ala Arg Leu
E--> 758 50 55 60
760 Val Thr Pro Tyr Trp Gly Leu His Gly Gly Glu Arg Asp Trp Tyr
E--> 761 65 70 75
E--> 762 80
764 Leu Ala Gln Gly Val Ser Ile Glu Trp Arg Lys Arg Arg Tyr Ser Thr
E--> 765 85 90
E--> 766 95
768 Gln Val Asp Pro Asp Leu Ala Asp Gln Leu Ile His Leu Tyr Tyr Phe
E--> 769 100 105
E--> 770 110
772 Asp Cys Phe Ser Glu Ser Ala Ile Arg Lys Ala Ile Leu Gly Tyr Arg
E--> 773 115 120 125
775 Val Ser Pro Arg Cys Glu Tyr Gln Ala Gly His Asn Lys Val Gly Ser
E--> 776 130 135 140
778 Leu Gln Tyr Leu Ala Leu Ala Leu Ile Thr Pro Lys Lys Ile Lys
E--> 779 145 150 155
E--> 780 160
782 Pro Pro Leu Pro Ser Val Arg Lys Leu Thr Glu Asp Arg Trp Asn Lys
E--> 783 165 170
E--> 784 175
786 Pro Gln Lys Thr Lys Gly His Arg Gly Ser His Thr Met Asn Gly His
E--> 787 180 185
E--> 788 190
790 <210> SEQ ID NO: 17
791 <211> LENGTH: 192
792 <212> TYPE: PRT
793 <213> ORGANISM: Artificial Sequence
795 <220> FEATURE:
796 <223> OTHER INFORMATION: Description of Artificial Sequence: Novel Sequence
798 <400> SEQUENCE: 17
799 Met Glu Asn Arg Trp Glu Val Met Ile Val Trp Glu Val Asp Arg Met
E--> 800 1 5 10
E--> 801 15
803 Arg Ile Arg Ala Trp Asn Ser Leu Val Lys His His Met Tyr Val Ser
E--> 804 20 25
E--> 805 30
807 Lys Lys Ala Lys Lys Trp Phe Tyr Arg His His Tyr Glu Ser Pro His
E--> 808 35 40 45
810 Pro Lys Val Ser Ser Glu Val His Ile Pro Leu Gly Asp Ala Arg Leu
E--> 811 50 55 60
813 Val Ile Thr Thr Tyr Trp Gly Leu His Ala Gln Glu Arg Asp Trp His
E--> 814 65 70 75
E--> 815 80
817 Leu Gly Gln Gly Val Ser Ile Glu Trp Arg Lys Arg Arg Tyr Ser Thr
E--> 818 85 90
E--> 819 95
821 Gln Val Asp Pro Asp Leu Ala Asp Gln Leu Ile His Leu Tyr Tyr Phe
E--> 822 100 105

same

same

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/486,625

DATE: 11/16/2000
TIME: 16:24:01

Input Set : A:\PTO.txt
Output Set: N:\CRF3\11162000\I486625.raw

E--> 823 110
825 Asp Cys Phe Ser Glu Ser Ala Ile Arg Lys Ala Ile Leu Gly Tyr Arg
E--> 826 115 120 125
828 Val Ser Pro Arg Cys Glu Tyr Gln Ala Gly His Asn Lys Val Gly Ser
E--> 829 130 135 140
831 Leu Gln Tyr Leu Ala Ala Ala Leu Ile Thr Pro Lys Lys Ile Lys
E--> 832 145 150 155
E--> 833 160
835 Pro Pro Leu Pro Ser Val Arg Lys Leu Thr Glu Asp Arg Trp Asn Lys
E--> 836 165 170
E--> 837 175
839 Pro Gln Lys Thr Lys Gly His Arg Gly Ser His Thr Met Asn Gly His
E--> 840 180 185
E--> 841 190
843 <210> SEQ ID NO: 18
844 <211> LENGTH: 192
845 <212> TYPE: PRT
846 <213> ORGANISM: Artificial Sequence
848 <220> FEATURE:
849 <223> OTHER INFORMATION: Description of Artificial Sequence: Novel Sequence
E--> 851 <400> SEQUENCE: 17
852 Met Glu Asn Arg Trp Gln Val Met Ile Val Trp Gln Val Asp Arg Met
E--> 853 1 5 10
E--> 854 15
856 Arg Ile Arg Ala Trp Asn Ser Leu Val Lys His His Met Tyr Val Ser
E--> 857 20 25
E--> 858 30
860 Lys Asn Ala Lys Lys Trp Phe Tyr Arg His His Tyr Asp Ser Pro His
E--> 861 35 40 45
863 Pro Val Gln Ser Ser Thr Ala His Ile Pro Leu Gly Asp Gly Arg Leu
E--> 864 50 55 60
866 Gln Lys Ile Ala Phe Trp Ser Leu Asp Ala Gly Glu Arg Asp Trp His
E--> 867 65 70 75
E--> 868 80
870 Leu Gly Gln Gly Val Ser Ile Glu Trp Arg Lys Arg Arg Tyr Ser Thr
E--> 871 85 90
E--> 872 95
874 Gln Val Asp Pro Asp Leu Ala Asp Gln Leu Ile His Leu Tyr Tyr Phe
E--> 875 100 105
E--> 876 110
878 Asp Cys Phe Ser Glu Ser Ala Ile Arg Lys Ala Ile Leu Gly Tyr Arg
E--> 879 115 120 125
881 Val Ser Pro Arg Cys Glu Tyr Gln Ala Gly His Asn Lys Val Gly Ser
E--> 882 130 135 140
884 Leu Gln Tyr Leu Ala Leu Ala Ala Leu Ile Thr Pro Lys Lys Ile Lys
E--> 885 145 150 155
E--> 886 160
888 Pro Pro Leu Pro Ser Val Arg Lys Leu Thr Glu Asp Arg Trp Asn Lys
E--> 889 165 170

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/486,625

DATE: 11/16/2000
TIME: 16:24:01

Input Set : A:\PTO.txt
Output Set: N:\CRF3\11162000\I486625.raw

E--> 890 175
892 Pro Gln Lys Thr Lys Gly His Arg Gly Arg His Thr Met Asn Gly His
E--> 893 180 185
E--> 894 190
896 <210> SEQ ID NO: 19
897 <211> LENGTH: 192
898 <212> TYPE: PRT
899 <213> ORGANISM: Artificial Sequence
901 <220> FEATURE:
902 <223> OTHER INFORMATION: Description of Artificial Sequence: Novel Sequence
904 <400> SEQUENCE: 19
905 Met Glu Asn Arg Trp Gln Val Met Ile Val Trp Gln Val Asp Arg Met
E--> 906 1 5 10
E--> 907 15
909 Arg Ile Arg Ala Trp Asn Ser Leu Val Lys His His Met Tyr Val Ser
E--> 910 20 25
E--> 911 30
913 Lys Lys Ala Lys Lys Trp Phe Tyr Arg His His Tyr Asp Ser Pro His
E--> 914 35 40
916 Pro Lys Val Ser Ser Glu Val His Ile Pro Leu Gly Asp Ala Arg Leu
E--> 917 50 55 60
919 Glu Thr Thr Thr Tyr Trp Gly Leu His Ala Gly Glu Arg Asp Trp His
E--> 920 65 70 75
E--> 921 80
923 Leu Gly Gln Gly Val Ser Ile Glu Trp Arg Lys Arg Arg Tyr Ser Thr
E--> 924 85 90
E--> 925 95
927 His Val Asp Pro Asp Leu Ala Asp Gln Leu Ile His Leu Tyr Tyr Phe
E--> 928 100 105
E--> 929 110
931 Asp Cys Phe Ser Glu Ser Ala Ile Arg Lys Ala Ile Leu Gly Tyr Arg
E--> 932 115 120 125
934 Val Ser Pro Arg Cys Glu Tyr Gln Ala Gly His Asn Lys Val Gly Ser
E--> 935 130 135 140
937 Leu Gln Tyr Leu Ala Leu Ala Leu Ile Thr Pro Lys Lys Ile Lys
E--> 938 145 150 155
E--> 939 160
941 Pro Pro Leu Pro Ser Val Arg Lys Leu Thr Glu Asp Arg Trp Asn Lys
E--> 942 165 170
E--> 943 175
945 Pro Gln Lys Thr Lys Gly His Arg Gly Ser His Thr Met Asn Gly His
E--> 946 180 185
E--> 947 190
949 <210> SEQ ID NO: 20
950 <211> LENGTH: 192
951 <212> TYPE: PRT
952 <213> ORGANISM: Artificial Sequence
954 <220> FEATURE:
955 <223> OTHER INFORMATION: Description of Artificial Sequence: Novel Sequence

Man

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/486,625

DATE: 11/16/2000
TIME: 16:24:01

Input Set : A:\PTO.txt
Output Set: N:\CRF3\11162000\I486625.raw

957 <400> SEQUENCE: 20
958 Met Glu Asn Arg Trp Gln Val Met Ile Val Trp Gln Val Asp Arg Met
E--> 959 1 5 10
E--> 960 15
962 Thr Ile Arg Ala Trp Asn Ser Leu Val Lys His His Met Tyr Val Ser
E--> 963 20 25
E--> 964 30
966 Lys Lys Ala Lys Lys Trp Phe Tyr Arg His His Tyr Glu Ser Pro His
E--> 967 35 40
969 Pro Lys Val Ser Ser Glu Val His Ile Pro Leu Gly Asp Ala Arg Leu
E--> 970 50 55 60
972 Val Ile Thr Thr Tyr Trp Gly Leu His Ala Gly Glu Arg Asp Trp His
E--> 973 65 70 75
E--> 974 80
976 Leu Gly Gln Gly Val Ser Ile Glu Trp Arg Lys Arg Arg Tyr Ser Thr
E--> 977 85 90
E--> 978 95
980 Gln Val Asp Pro Asp Leu Ala Asp Gln Leu Thr His Leu Tyr Tyr Phe
E--> 981 100 105
E--> 982 110
984 Asp Cys Phe Ser Glu Ser Ala Ile Arg Lys Ala Ile Leu Gly Tyr Arg
E--> 985 115 120 125
987 Val Ser Pro Arg Cys Glu Tyr Gln Ala Gly His Asn Lys Val Gly Ser
E--> 988 130 135 140
990 Leu Gln Tyr Leu Ala Leu Ala Leu Ile Thr Pro Lys Lys Ile Lys
E--> 991 145 150 155
E--> 992 160
994 Pro Pro Leu Pro Ser Val Arg Lys Leu Thr Glu Asp Arg Trp Asn Lys
E--> 995 165 170
E--> 996 175
998 Pro Gln Lys Thr Lys Gly His Arg Gly Ser His Thr Met Asn Gly His
E--> 999 180 185
E--> 1000 190
1002 <210> SEQ ID NO: 21
1003 <211> LENGTH: 188
1004 <212> TYPE: PRT
1005 <213> ORGANISM: Artificial Sequence
1007 <220> FEATURE:
1008 <223> OTHER INFORMATION: Description of Artificial Sequence: Novel Sequence
1010 <400> SEQUENCE: 21
1011 Met Glu Asn Arg Trp Gln Val Met Ile Val Trp Gln Val Asp Arg Met
E--> 1012 1 5 10
E--> 1013 15
1015 Arg Ile Arg Ala Trp Asn Ser Leu Val Lys His His Met Tyr Val Ser
E--> 1016 20 25
E--> 1017 30
1019 Lys Lys Ala Lys Lys Trp Phe Asn Arg His His Tyr Asp Arg Pro His
E--> 1020 35 40 45
1022 Pro Lys Val Ser Ser Glu Val His Ile Pro Leu Gly Asp Ala Arg Leu

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/486,625

DATE: 11/16/2000
TIME: 16:24:01

Input Set : A:\PTO.txt
Output Set: N:\CRF3\11162000\I486625.raw

E--> 1023 50 55 60
1025 Glu Ile Thr Thr Phe Trp Gly Leu His Ala Gly Glu Arg Asp Trp His
E--> 1026 65 70 75
E--> 1027 80
1029 Leu Gly Gln Arg Val Ser Ile Glu Trp Arg Lys Arg Arg Tyr Ser Thr
E--> 1030 85 90
E--> 1031 95
1033 Gln Val Asp Pro Asp Leu Ala Asp Gln Leu Thr His Leu Tyr Tyr Phe
E--> 1034 100 105
E--> 1035 110
1037 Asp Cys Phe Ser Glu Ser Ala Ile Arg Lys Ala Ile Leu Gly Tyr Arg
E--> 1038 115 120 125
1040 Val Ser Pro Arg Cys Glu Tyr Gln Ala Gly His Asn Lys Val Gly Ser
E--> 1041 130 135 140
1043 Leu Gln Tyr Leu Ala Leu Ala Leu Ile Thr Pro Lys Lys Ile Lys
E--> 1044 145 150 155
E--> 1045 160
1047 Pro Pro Leu Pro Ser Val Arg Lys Leu Thr Glu Asp Arg Trp Asn Lys
E--> 1048 165 170
E--> 1049 175
1051 Pro Gln Lys Thr Lys Gly Thr Glu Gly Ala Ile Gln 185
E--> 1052 180
1055 <210> SEQ ID NO: 22
1056 <211> LENGTH: 192
1057 <212> TYPE: PRT
1058 <213> ORGANISM: Artificial Sequence
1060 <220> FEATURE:
1061 <223> OTHER INFORMATION: Description of Artificial Sequence: Novel Sequence
1063 <400> SEQUENCE: 22
1064 Met Glu Asn Arg Trp Gln Val Met Ile Val Trp Gln Val Asp Arg Met
E--> 1065 1 5 10
E--> 1066 15
1068 Arg Ile Arg Ala Trp Asn Ser Leu Val Lys His His Met Phe Val Ser
E--> 1069 20 25
E--> 1070 30
1072 Lys Lys Ala Lys Lys Trp Phe Tyr Arg His His Tyr Glu Ser Pro His
E--> 1073 35 40 45
1075 Pro Lys Val Ser Ser Gln Val His Ile Pro Leu Gly Asp Ala Arg Leu
E--> 1076 50 55 60
1078 Glu Ile Thr Thr Phe Trp Gly Leu His Ala Gly Glu Arg Asp Trp His
E--> 1079 65 70 75
E--> 1080 80
1082 Leu Gly Gln Gly Val Ser Ile Glu Trp Arg Lys Arg Arg Tyr Ser Thr
E--> 1083 85 90
E--> 1084 95
1086 Gln Val Asp Pro Asp Leu Ala Asp Gln Leu Ile His Leu Tyr Tyr Phe
E--> 1087 100 105
E--> 1088 110
1090 Gly Cys Phe Ser Glu Ser Ala Ile Arg Lys Ala Ile Leu Gly Tyr Arg

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/486,625

DATE: 11/16/2000
TIME: 16:24:01

Input Set : A:\PTO.txt
Output Set: N:\CRF3\11162000\I486625.raw

E--> 1091 115 120 125
1093 Val Ser Pro Arg Cys Glu Tyr Gln Ala Gly His Asn Lys Val Gly Ser
E--> 1094 130 135 140
1096 Leu Gln Tyr Leu Gly Leu Ala Ala Leu Ile Thr Pro Lys Lys Ile Lys
E--> 1097 145 150 155
E--> 1098 160
1100 Pro Pro Leu Pro Ser Val Arg Lys Leu Thr Glu Asp Arg Trp Asn Lys
E--> 1101 165 170
E--> 1102 175
1104 Pro Gln Lys Thr Lys Gly His Arg Gly Ser His Thr Met Asn Gly His
E--> 1105 180 185
E--> 1106 190

name

FYI !

**The types of errors shown exist throughout the Sequence Listing. Please check
subsequent sequences for similar errors.**

VERIFICATION SUMMARY DATE: 11/16/2000
PATENT APPLICATION: US/09/486,625 TIME: 16:24:02

Input Set : A:\PTO.txt
Output Set: N:\CRF3\11162000\I486625.raw

L:14 M:270 C: Current Application Number differs, Replaced Current Application Number
L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:31 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
M:332 Repeated in SeqNo 1
L:108 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
M:332 Repeated in SeqNo 4
L:162 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5
M:332 Repeated in SeqNo 5
L:215 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:6
M:332 Repeated in SeqNo 6
L:268 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:7
M:332 Repeated in SeqNo=7
L:321 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:8
M:332 Repeated in SeqNo 8
L:374 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:9
M:332 Repeated in SeqNo=9
L:427 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:10
M:332 Repeated in SeqNo=10
L:480 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:11
M:332 Repeated in SeqNo=11
L:533 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:12
M:332 Repeated in SeqNo=12
L:586 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:13
M:332 Repeated in SeqNo=13
L:639 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:14
M:332 Repeated in SeqNo=14
L:693 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:15
M:332 Repeated in SeqNo=15
L:747 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:16
M:332 Repeated in SeqNo=16
L:800 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:17
M:332 Repeated in SeqNo=17
L:851 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:18 differs:17
L:853 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:17
M:332 Repeated in SeqNo=18
L:906 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:19
M:332 Repeated in SeqNo=19
L:959 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:20
M:332 Repeated in SeqNo=20
L:1012 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:21
M:332 Repeated in SeqNo=21
L:1065 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:22
M:332 Repeated in SeqNo=22
L:1118 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:23
M:332 Repeated in SeqNo=23
L:1171 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:24
L:1183 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:25
L:1195 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:26